

## Answer on Question#38672, Chemistry, Other

Question:

what is nitrogen?

Answer:

Nitrogen, symbol N, is the chemical element of atomic number seven. At room temperature, it is a gas of diatomic molecules and is colorless and odorless. Nitrogen is a common element in the universe, estimated at about seventh in total abundance in our galaxy and the Solar System. On Earth, the element is primarily found as the free element; it forms about 80% of the Earth's atmosphere. Nitrogen is a nonmetal, it has five electrons in its outer shell and is, therefore, trivalent in most compounds. The triple bond in molecular nitrogen ( $N_2$ ) is one of the strongest. The resulting difficulty of converting  $N_2$  into other compounds, and the ease (and associated high energy release) of converting nitrogen compounds into elemental  $N_2$ , have dominated the role of nitrogen in both nature and human economic activities.